GuangdongDapuTelecomTechnologyCo.,Ltd

http://www.dptel.com

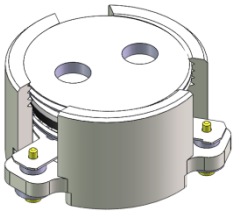
Bldg13-16,.N.Ind.Zone,SSLIndustry Park,DongguanCity,Guangdong Province,PRChina
TEL:0086-0769-88010888
FAX:0086-0769-81800098

DP0908C

ENG PART:DP-17.5CM-3800T3900-CCW

3800MHz to 3900MHz Single-Junction Surface Mount Circulator

REV.	DESCRIPTION	REVISOR	DATE	APPROVED
A	Creating datasheet	ZC.Wu	2022/4/21	Nick

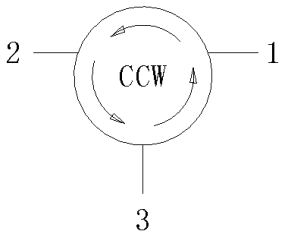


Applications:

- Wireless Infrastructure
- Power Amplifier

Features:

- Operating frequency range: 3800MHz to 3900MHz
- Operating temperature range: -40℃ to +110℃
- Storage temperature range: -40℃ to +125℃
- Small surface-mount package delivered on T&R
- BeOfree&RoHS compliant



Block Diagram

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Electrical Specifications:

ITEM	SPECIFICATION	
Frequency	3800~3900	MHz
Direction	CCW	
Impedance	Typ: 50	Ω
Insertion Loss （Max.)	0.25	dB
Isolation (Min.)	22@25±5℃ 20@-40~+110℃	dB
Return Loss (Min.)	22@25±5℃ 20@-40~+110℃	dB
3rd IMD (Max.)	-65@2x25W CW tones，5MHz spacing -65@100MHz spacing result need	dBc
Group delay	2.0	ns
Group delay ripple	0.5@3600-4100MHz	ns
Harmonic	0 @2*f 50W CW -20@3*f 50W CW	dBm
Attenuation	10 @2*Tx 5 @3*Tx 5 @N*Tx	dB
Power FWD/REV/PEAK	60/30/600	W
Out band Resonant freq	4.2GHz	
Termination/Attenuator	/	W/dB

Notes:

1. Exposure to maximum rating conditions for extended periods may reduce device reliability. There is no damage to device with only one parameter set at the limit and all other parameters set at or below their nominal value. Exceeding any of the limits listed here may result in permanent damage to the device.
2. Performance is guaranteed under the conditions listed in this table and over the operating temperature range.

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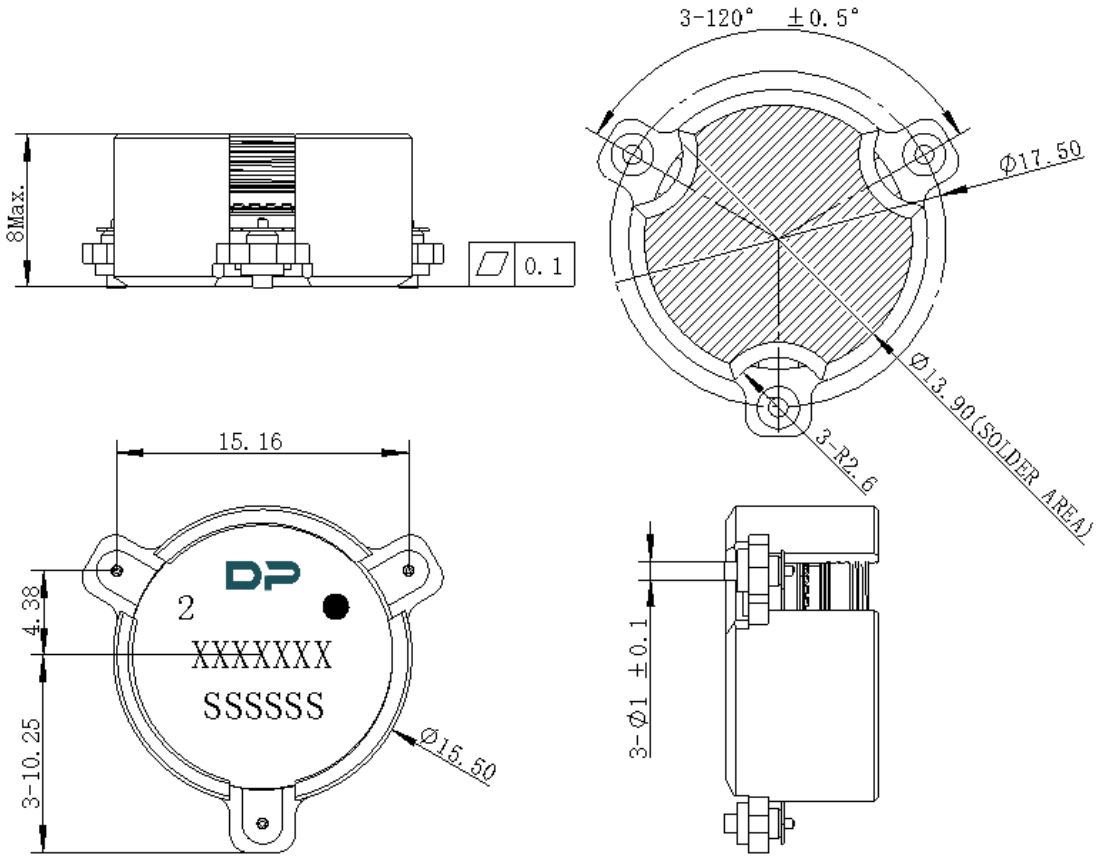
Mechanical Specifications:



Unit: Millimeters

Notes:

1. The housing and pins are silver-plated.
2. Tolerance ±0.2mmunless otherwise specified.
3. Co-planarity Specification: 0.1mm maximum.
4. Part Number, Lot Code, and Port Designation are printed on the top side of device.
5. The **XXXXXXX** on the label represents the part number
6. The SSSSSS on the label represents the serial number
7. The black dot on the label represents the input port